

**Area** of watershed = approximately 29,753 acres.

**Runoff coefficient** as taken from attached table = .67. See page 2.

**Average annual precipitation** in feet per year = 2.86 feet. See page 3-5.

**Water outflow** from the watershed as defined by existing water rights on record at the Division = 71.5 cfs. See page 6 - 13.

**29,753 x .67 x 2.86 = 57,012.7 acre feet/year, or 78.75 cfs.**

**78.75 cfs (Inflow) – 71.5 cfs (Outflow) = 7.25 cfs (Water Available)**

2006-07-25 01:14

**Attachment for 1260(k) Analysis**  
**Runoff Coefficient "C" for Undeveloped Areas**

Watershed Characteristics	Watershed Types			
	Extreme	High	Normal	Low
Topography	0.28 – 0.35 Steep, rugged terrain with average slopes above 30%	0.20 – 0.28 Hilly, with average slopes of 10 to 30%	0.14 – 0.20 Rolling with average slopes of 5 to 10%	0.08 – 0.14 Relatively flat land, with average slopes of 0 to 5%
Soil Saturation	0.12 – 0.16 No effective soil cover; either rock or thin soil mantle of negligible infiltration capacity	0.08 – 0.12 Slow uptake of water; clay or loam soil of low infiltration capacity; imperfectly or poorly drained	0.06 – 0.08 Normal; well-drained, high or medium-textured soils, sandy loams, silt and silty loams	0.04 – 0.06 High; deep sand or other soil that takes up water readily, very high level drained soils
Vegetal Cover	0.12 – 0.16 No effective plant cover, bare, or very sparse cover	0.08 – 0.12 Poor to fair; clean cultivation crops, or poor natural cover, less than 20% of drainage area over good cover	0.06 – 0.08 Fair to good; about 50% of area in grassland or woodland, not more than 50% of area in cultivated crops	0.04 – 0.06 Good to excellent; about 90% of drainage area in grassland, woodland or with equivalent cover
Surface Water	0.10 – 0.12 Negligible surface depression few and shallow; drainage ways steep and small, no marshes	0.08 – 0.10 Low; very well defined system of drainage ways; no ponds or marshes	0.06 – 0.08 Normal; considerable surface depression storage, lakes and pond marshes	0.04 – 0.06 High; surface storage high; drainage system not sharply defined, large floodplain storage or large number of pond marshes

The runoff coefficient "C" for a project in an undeveloped area may be identified as the sum of values given to specific characteristics of the watershed. To determine "C," select a value from the range of values assigned to the watershed type for each characteristic, and add the selected values.

Example: The characteristics of the watershed consist of:

- 1) Hilly terrain with average slope of 15%, (topography) = 0.25
  - 2) Well-drained gravelly loams, (soil saturation) = 0.11
  - 3) Planted with grapes, and (vegetal cover) = 0.07
  - 4) Low, well-defined drainage (surface water) = 0.09
- Total = 0.52

The runoff coefficient for the example watershed is 0.52.

The information for the average annual precipitation is taken from the California Dept of Water Resources website:

[http://cdec.water.ca.gov/snow\\_rain.html](http://cdec.water.ca.gov/snow_rain.html).

The nearest gauging stations are: Mono Pass, which is north of the Pine Creek watershed, and Piute Pass, which is south of the Pine Creek watershed. The precipitation total in the analysis (page 1) is an average of the *April 1 Average* precipitation at the two gauging stations. See pages 4 and 5.

Mono Pass – April 1 Average 30.8 inches (page 4)

Piute Pass – April 1 Average 37.9 inches (page 5)

Total precipitation  $68.7 \div 2 = 34.35$  inches  $\div 12 = 2.86$  feet

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## MONO PASS (182)

Elevation	11450'
River Basin	SAN JOAQUIN R
Cooperator	Southern California Edison Company, Big Creek
Aspect	level
Exposure	open
April 1 Average	30.8"
CDEC Station ID	MNP

Depth and water equivalent in inches. The *adjusted* value is the water content corrected to the first of the month, based on estimated precipitation between the measurement date and the first of the month.

<i>Date</i>	<i>Measured Date</i>	<i>Depth</i>	<i>W.C.</i>	<i>Density</i>	<i>Adjusted</i>
2/2005	31-JAN-2005	94.6	29.7	31%	--
3/2005	01-MAR-2005	104.0	35.7	34%	--
4/2005	31-MAR-2005	110.0	37.0	34%	--
4/2006	30-MAR-2006	124.2	40.4	33%	--

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## PIUTE PASS (183)

Elevation	11300'
River Basin	SAN JOAQUIN R
Cooperator	CA Dept of Water Resources
Aspect	level
Exposure	open scattered rocks
April 1 Average	37.9"
CDEC Station ID	PPS

Depth and water equivalent in inches. The *adjusted* value is the water content corrected to the first of the month, based on estimated precipitation between the measurement date and the first of the month.

<i>Date</i>	<i>Measured Date</i>	<i>Depth</i>	<i>W.C.</i>	<i>Density</i>	<i>Adjusted</i>
2/2005	26-JAN-2005	100.5	35.9	36%	--
3/2005	01-MAR-2005	112.0	43.7	39%	--
4/2005	30-MAR-2005	128.7	49.7	39%	--
5/2005	27-APR-2005	113.8	53.5	47%	--
2/2006	25-JAN-2006	86.2	32.5	38%	--
3/2006	26-FEB-2006	79.9	32.7	41%	--
4/2006	29-MAR-2006	136.2	49.1	36%	--
5/2006	30-APR-2006	131.8	59.7	45%	--

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## Water Permits for Pine Creek

Page 6

The water right holders by application number and the quantity of water taken by these applicants are listed below. This information is from the Division's database on <http://www.waterrights.ca.gov/>.

S013344	15 cfs	page 7
S002166	12 cfs	page 8
S002167	0 cfs	inactive
S002168	0 cfs	inactive
S002169	12 cfs	page 9
S001693	20 cfs	page 10
S001694	6 cfs	page 11
S001695	4 cfs	page 12
S010995	2.5 cfs	page 13
S013345	0 cfs	inactive

Total	71.5 cfs	
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[login client: Tue Jul 25 06:06:03 PDT 2006/67.150.171.209]

## WRIMS Query Report

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**Application :** S013344 [JShape Map - 250K] [JShape Map - 100K]

**Primary Contact Owner :** HOWARD C. ARCULARIUS

**Owner(s) :** HOWARD C. ARCULARIUS

**Mail Receiver (Owner) :** HOWARD C. ARCULARIUS

**Source & POD Information :**

**Water to be diverted from PINE CREEK - (Stream Code: 640950000)**

Tributary to ROCK CREEK thence OWENS RIVER

Maximum Direct Diversion from this source : 15 cubic-feet/sec

Maximum Storage from this source per year : 0 ac-ft/annum

**POD** IN SE Quarter of NW Quarter of Section 19, T06S, R31E, MM&B (Inyo County)

Direct Diversion from this POD : 15 cubic-feet/sec

Total Annual Direct Diversion from this POD : 0 ac-ft/annum

Diversion Storage from this POD : 0 ac-ft/annum

**Amount :**

**Maximum Application Direct Diversion :** 15 cubic-feet/sec

**Purpose of Use :** Irrigation

Diversion Season : January 1 to December 1

**Purpose of Use :** Stockwatering

Diversion Season : January 1 to December 1

**License Image(s) :**

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[login client: Tue Jul 25 06:09:53 PDT 2006/67.150.171.209]

## WRIMS Query Report

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Application : S002166 [JShape Map - 250K] [JShape Map - 100K]

Primary Contact Owner : PINE CREEK OPERATIONS, U S TUNGSTEN CORP

Owner(s) : PINE CREEK OPERATIONS, U S TUNGSTEN CORP

Mail Receiver (Agent) : PACIFICA DEVELOPMENT

**Source & POD Information :**

Water to be diverted from PINE CREEK - (Stream Code: 640950000)

Tributary to OWENS RIVER

Maximum Direct Diversion from this source : 12 cubic-feet/sec

Maximum Storage from this source per year : 0 ac-ft/annum

POD IN SW Quarter of NE Quarter of Section 19, T06S, R31E, MM&B (Inyo County)

Direct Diversion from this POD : 12 cubic-feet/sec

Total Annual Direct Diversion from this POD : 0 ac-ft/annum

Diversion Storage from this POD : 0 ac-ft/annum

**Amount :**

Maximum Application Direct Diversion : 12 cubic-feet/sec

**Purpose of Use : Stockwatering**

Diversion Season : January 1 to December 1

**Purpose of Use : Irrigation**

Diversion Season : January 1 to December 1

**License Image(s) :**

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S002167

JAN 01, 1967

U.S. TUNGSTEN CORP.

NO REPORT

S002168

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## WRIMS Query Report

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**Application :** S002169 [JShape Map - 250K] [JShape Map - 100K]

**Primary Contact Owner :** PINE CREEK OPERATIONS, U S TUNGSTEN CORP

**Owner(s) :** PINE CREEK OPERATIONS, U S TUNGSTEN CORP

**Mail Receiver (Agent) :** PACIFICA DEVELOPMENT

**Source & POD Information :**

**Water to be diverted from PINE CREEK - (Stream Code: 640950000)**

Tributary to OWENS RIVER

Maximum Direct Diversion from this source : 12 cubic-feet/sec

Maximum Storage from this source per year : 0 ac-ft/annum

**POD IN NW Quarter of NE Quarter of Section 19, T06S, R31E, MM&B (Inyo County)**

Direct Diversion from this POD : 12 cubic-feet/sec

Total Annual Direct Diversion from this POD : 0 ac-ft/annum

Diversion Storage from this POD : 0 ac-ft/annum

**Amount :**

**Maximum Application Direct Diversion :** 12 cubic-feet/sec

**Purpose of Use :** Irrigation

Diversion Season : January 1 to December 1

**Purpose of Use :** Stockwatering

Diversion Season : January 1 to December 1

**License Image(s) :**

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## WRIMS Query Report

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**Application** : S001693 [JShape Map - 250K] [JShape Map - 100K]

**Primary Contact Owner** : C/O SAEED JORAT, CITY OF LOS ANGELES DEPT OF WATER & POWER

**Owner(s)** : C/O SAEED JORAT, CITY OF LOS ANGELES DEPT OF WATER & POWER

**Mail Receiver (Owner)** : C/O SAEED JORAT, CITY OF LOS ANGELES DEPT OF WATER & POWER

**Source & POD Information :**

**Water to be diverted from PINE CREEK - (Stream Code: 640950000)**

Tributary to ROCK CREEK

Maximum Direct Diversion from this source : 20 cubic-feet/sec

Maximum Storage from this source per year : 0 ac-ft/annum

**POD** IN SW Quarter of NE Quarter of Section 19, T06S, R31E, MM&B (Inyo County)

Direct Diversion from this POD : 20 cubic-feet/sec

Total Annual Direct Diversion from this POD : 0 ac-ft/annum

Diversion Storage from this POD : 0 ac-ft/annum

**Amount :**

**Maximum Application Direct Diversion** : 20 cubic-feet/sec

**Purpose of Use** : Irrigation

Diversion Season : January 1 to December 1

**License Image(s) :**

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[login client: Tue Jul 25 06:15:52 PDT 2006/67.150.171.209]

## WRIMS Query Report

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**Application :** S001694 [JShape Map - 250K] [JShape Map - 100K]

**Primary Contact Owner :** C/O SAEED JORAT, CITY OF LOS ANGELES DEPT OF WATER & POWER

**Owner(s) :** C/O SAEED JORAT, CITY OF LOS ANGELES DEPT OF WATER & POWER

**Mail Receiver (Owner) :** C/O SAEED JORAT, CITY OF LOS ANGELES DEPT OF WATER & POWER

**Source & POD Information :**

**Water to be diverted from PINE CREEK - (Stream Code: 640950000)**

Tributary to ROCK CREEK

Maximum Direct Diversion from this source : 6 cubic-feet/sec

Maximum Storage from this source per year : 0 ac-ft/annum

**POD IN SW Quarter of SW Quarter of Section 17, T06S, R31E, MM&B (Inyo County)**

Direct Diversion from this POD : 6 cubic-feet/sec

Total Annual Direct Diversion from this POD : 0 ac-ft/annum

Diversion Storage from this POD : 0 ac-ft/annum

**Amount :**

**Maximum Application Direct Diversion :** 6 cubic-feet/sec

**Purpose of Use :** Irrigation

Diversion Season : May 1 to September 1

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## WRIMS Query Report

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**Application** : S001695 [JShape Map - 250K] [JShape Map - 100K]

**Primary Contact Owner** : C/O SAEED JORAT, CITY OF LOS ANGELES DEPT OF WATER & POWER

**Owner(s)** : C/O SAEED JORAT, CITY OF LOS ANGELES DEPT OF WATER & POWER

**Mail Receiver (Owner)** : C/O SAEED JORAT, CITY OF LOS ANGELES DEPT OF WATER & POWER

**Source & POD Information :**

**Water to be diverted from PINE CREEK - (Stream Code: 640950000)**

Tributary to ROCK CREEK

Maximum Direct Diversion from this source : 4 cubic-feet/sec

Maximum Storage from this source per year : 0 ac-ft/annum

**POD** IN SW Quarter of NE Quarter of Section 16, T06S, R31E, MM&B (Inyo County)

Direct Diversion from this POD : 4 cubic-feet/sec

Total Annual Direct Diversion from this POD : 0 ac-ft/annum

Diversion Storage from this POD : 0 ac-ft/annum

**Amount :**

**Maximum Application Direct Diversion** : 4 cubic-feet/sec

**Purpose of Use** : Irrigation

Diversion Season : May 1 to September 1

**License Image(s) :**

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## WRIMS Query Report

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**Application :** S010995 [JShape Map - 250K] [JShape Map - 100K]

**Primary Contact Owner :** WRIGHTS 40-ACRES

**Owner(s) :** WRIGHTS 40-ACRES

**Mail Receiver (Agent) :** THADDEUS W. TAYLOR III

**Source & POD Information :**

**Water to be diverted from PINE CREEK - (Stream Code: 640950000)**

Tributary to OWENS RIVER

Maximum Direct Diversion from this source : 2.5 cubic-feet/sec

Maximum Storage from this source per year : 0 ac-ft/annum

**POD IN SW Quarter of SW Quarter of Section 17, T06S, R31E, MM&B (Inyo County)**

Direct Diversion from this POD : 2.5 cubic-feet/sec

Total Annual Direct Diversion from this POD : 0 ac-ft/annum

Diversion Storage from this POD : 0 ac-ft/annum

**Amount :**

**Maximum Application Direct Diversion :** 2.5 cubic-feet/sec

**Purpose of Use :** Fire Protection

Diversion Season : January 1 to December 1

**Purpose of Use :** Irrigation

Diversion Season : January 1 to December 1

**Purpose of Use :** Domestic

Diversion Season : January 1 to December 1

**Purpose of Use :** Stockwatering

Diversion Season : January 1 to December 1

**License Image(s) :**

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